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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,881	11/03/2003	Jan Princeton Plummer		2880
35124	7590	01/27/2006		
JAN P. PLUMMER 341 ENGLAND PL NE. MARIETTA, GA 30066			EXAMINER LE, NHAN T	
			ART UNIT	PAPER NUMBER
			2685	
DATE MAILED: 01/27/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/605,881	<b>Applicant(s)</b> PLUMMER, JAN PRINCETON	
	<b>Examiner</b> Nhan T. Le	<b>Art Unit</b> 2685	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 03 November 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Specification***

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract of the disclosure is objected to because it exceeds 150 words.

Correction is required. See MPEP § 608.01(b).

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 2-7 recites the limitation "the wireless transmission system" in line 1 of the claims. There is insufficient antecedent basis for this limitation in the claim.

In addition, the claim(s) are narrative in form and replete with indefinite and functional or operational language. The structure which goes to make up the device

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must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. The claim(s) must be in one sentence form only. Note the format of the claims in the patent(s) cited. For example, the phrase "I claim" should be removed from claims 1-7 and claims 1, 3, 7 should be in one sentence form only.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Allen et al (US 6,487,296).

As to claim 1, Allen teaches a RF transmission (see col. 5, lines 45-65, fig. 5, number 13, col. 6, lines 51-67, col. 7, lines 1-28) and reception electronics (see col. 5, lines 45-65, fig. 6, number 14, col. 7, lines 29-67, col. 8, lines 1-34) to be located in the source audio component and associated subwoofer component, wherein the electronics designed primarily to provide enhanced wireless transmission and reception for the sub-bass frequencies using low power RF (see col. 3, lines 18-40, col. 5, lines 45-65).

As to claim 2, Allen teaches whereby the wireless transmission means for communicating the subwoofer signal is through use of airwaves and associated antenna (see col. 3, lines 18-45).

As to claim 3, Allen teaches wherein the AC power source is used for communicating the RF signal from the audio source component to the subwoofer (see Abstract) and where the signal RF is multiplexed on the line in a process (see fig. 5, numbers 65, 66, 80, 81, col. 6, lines 51-67, col. 7, lines 1-28).

As to claim 4, Allen teaches wherein other inherent dedicated wiring systems of existing structures are used to communicate the signals from the source component to the subwoofer (see col. 5, lines 45-65, fig. 6, number 14, col. 7, lines 29-67, col. 8, lines 1-34).

As to claim 5, Allen inherently teaches wherein multiple sub bass channels are multiplexed on a single carrier and de-multiplexed at multiple subwoofer locations (see col. 5, lines 45-65, fig. 6, number 14, col. 7, lines 29-67, col. 8, lines 1-34, fig. 6, numbers 90, 91, 100, 101, col. 7, lines 29-67, col. 8, lines 1-34).

As to claim 6, Allen teaches the use of the RF signal only (see col. 3, lines 18-40, col. 5, lines 45-65).

As to claim 7, Allen teaches whereby a direct-wired connection will cause deactivation of the wireless system and when the direct connection is removed the wireless system activates (see col. 7, lines 29-67, col. 8, lines 1-34).

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Olsen et al (US 2003/0157919) teaches battery module with wireless receiver built in to power distributed sound system.

Chen (US 6,590,982) teaches wireless stereo center speaker system.

Zablocki et al (US 6,731,761) teaches wireless remote speakers for an automotive vehicle.

Schotz et al (US 5,946,343) teaches digital wireless speaker system.

Smith et al (US 20030002682) teaches wireless audio/mechanical vibration transducer and audio/visual transducer.

Lindemann et al (US 2004/0223622) teaches digital wireless loudspeaker.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nhan T. Le whose telephone number is 571-272-7892. The examiner can normally be reached on 08:00-05:00 (Mon-Fri).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

N. Le

Nhan Le

Nguyen Vo

1-22-2006

**NGUYENT.VO  
PRIMARY EXAMINER**